

PATENT ABSTRACTS OF JAPAN

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(21) Application number : 06-233993

(71) Applicant : OPT KIKAKU KAIHATSU KK

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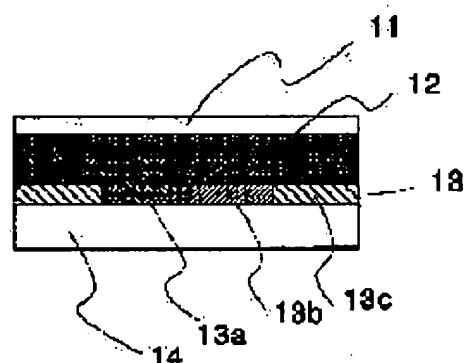
(72) Inventor : HASEGAWA TORU

(54) DATA RECORDING SHEET AND RECORDING DEVICE

(57) Abstract:

PURPOSE: To enable the repeated recording of visualized color data by providing colored layers having the repeating units of the three primary colors and a variable transmission layer capable of reversibly controlling a light transmission state.

CONSTITUTION: A data recording sheet has a colored layer 13 having the repeating units of colored layers 13a-13c of the three primary colors and a variable transmission layer 12 capable of reversibly changing a light transmission state and a light non-transmission state with memory properties by heat or heat and the electric field and does not have an electrode pair of a form holding the variable transmission layer 12 such as a transparent electrode pair. Therefore, the recording sheet is brought to an erasure state by uniformly heating the whole surface of the recording sheet by together using an electric field or without together using the same or by applying a uniform electric field to the recording sheet and the light transmission state of an arbitrary pixel is changed from the erasure state by using a thermal writing member capable of selectively heating a minute part to selectively develop or erase the color of the corresponding colored layer. As a result, a color image can be repeatedly recorded and erased relatively simply.



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(21)Application number : 06-220273

(71)Applicant : TOSHIBA CORP

(22)Date of filing : 14.09.1994

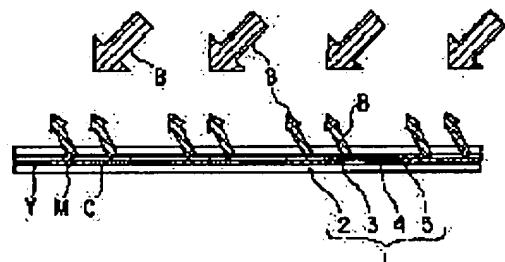
(72)Inventor : NAGATO KAZUSHI

(54) COLOR REWRITABLE RECORDING MEDIUM AND RECORDING METHOD USING THE SAME

(57)Abstract:

PURPOSE: To stably preserve a recording image for a long time by providing a coloring layer having a plurality of colors on a base material and providing a rewritable layer reversibly changed to transparent and opaque states at a specific temp. on the coloring layer.

CONSTITUTION: For example, when a recording medium is irradiated with light of blue B, the B-light transmits through the transparent rewritable layer 2 to reach a color mosaic layer 3. Colorants Y, M, C are applied to the mosaic layer 3 and the lights applied to the parts of M and C in the B-light transmit through the mosaic layer to be reflected by a base material 2 to be emitted to the outside but the B-light applied to the Y-part is absorbed by the colorant Y to be converted to heat and only the rewritable layer 4 on the Y-colorant becomes a turbid state. The Y-ink colorant under the rewritable layer 4 made turbid is not looked and, in the parts of M and C, the B-light being a synthetic color of M and C is looked. In the same way, by irradiating a part with light desired to develop a color, a desired color can be developed on the irradiated part.



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(21)Application number : 06-308892

(71)Applicant : RICOH CO LTD

(22)Date of filing : 13.12.1994

(72)Inventor : KAWAMURA EIICHI
KUBO TAKASHI

(54) MULTICOLOR THERMOSENSIBLE RECORDING MATERIAL

(57)Abstract:

PURPOSE: To form an image with good recording sensitivity, color separation, and a clear color tone without bleeding

CONSTITUTION: In a multicolor thermosensible recording material in which two thermosensible coloring layers which have different coloring temperatures and develop color in different color tones are laminated on a support, a colorless or hypochromic leuco dye as a coloring component of the upper thermosensible coloring layer and a color developing-subtracting agent having a coloring- decoloring function or a reversible developer is added.

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